

SEQUENCE LISTING

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COLE, PHILIP A
FRIEDMAN, JEFFREY M.
SONDHI, DOLAN
SEVERINOV, KONSTANTINE

<120> METHODS OF LIGATING EXPRESSED PROTEINS

<130> 600-1-214CIPB

<140> 09/191,890
<141> 1998-11-13

<150> 60/065,391
<151> 1997-11-13

<150> 60/093,990
<151> 1998-07-24

<160> 11

<170> PatentIn Ver. 2.0

<210> 1
<211> 162
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: generated by
ligation of two proteins under certain conditions

<400> 1

Met Leu Phe Val Ala Leu Tyr Asp Phe Val Ala Ser Gly Asp Asn Thr
1 5 10 15

Leu Ser Ile Thr Lys Gly Glu Lys Leu Arg Val Leu Gly Tyr Asn His
20 25 30

Asn Gly Glu Trp Ala Glu Ala Gln Thr Lys Asn Gly Gln Gly Trp Val
35 40 45

Pro Ser Asn Tyr Ile Thr Pro Val Gly Cys Leu Glu Lys His Ser Trp
50 55 60

Tyr His Gly Pro Val Ser Arg Asn Ala Ala Glu Tyr Leu Leu Ser Ser

65

70

75

80

Gly Ile Asn Gly Ser Phe Leu Val Arg Glu Ser Glu Ser Pro Gly
85 90 95

Gln Arg Ser Ile Ser Leu Arg Tyr Glu Gly Arg Val Tyr His Tyr Arg
100 105 110

Ile Asn Thr Ala Ser Asp Gly Lys Leu Tyr Val Ser Ser Glu Ser Arg
115 120 125

Phe Asn Thr Leu Ala Glu Leu Val His His His Ser Thr Val Ala Asp
130 135 140

Gly Leu Ile Thr Thr Leu His Tyr Pro Ala Pro Lys Arg Gly Ile His
145 150 155 160

Arg Asp

<210> 2

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Model peptide
synthesized by solid phase peptide synthesis.

<220>

<221> SITE

<222> (11)

<223> Xaa(position 11) is aminocaproate.

<220>

<223> C-terminal K has a fluorescein moiety off the
E-NH₂ group.

<400> 2

Cys Glu Asp Asn Glu Tyr Thr Ala Arg Glu Xaa Lys

1

5

10

<210> 3

<211> 12

<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Model peptide synthesized by solid phase peptide synthesis.

<220>
<221> SITE
<222> (11)
<223> Xaa(position 11) is aminocaproate.

<400> 3
Cys Glu Asp Asn Glu Tyr Thr Ala Arg Glu Xaa Lys
1 5 10

<210> 4
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Model peptide synthesized by solid phase peptide synthesis.

<220>
<223> K has a fluorescein moiety off the E-NH₂ group; C-terminus is an amide group.

<400> 4
Cys Gly Arg Gly Arg Gly Arg Lys
1 5

<210> 5
<211> 8
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown Organism: ligand

<400> 5
Pro Val Pro Tyr Glu Asn Val Gly
1 5

<210> 6
<211> 11

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Model peptide synthesized by solid phase peptide synthesis.

<220>
<223> C-terminus is an amide group.

<400> 6
Pro Pro Ala Tyr Pro Pro Pro Pro Val Pro Lys
1 5 10

<210> 7
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic oligonucleotide

<400> 7
ccggtcatcg aaggtcgttg cctggagaaa cattcctggat 42

<210> 8
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic oligonucleotide

<400> 8
catgataccca ggaatgttcc tccaggcaac gaccttcgat g 41

<210> 9
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: motif within linker region

<400> 9
Ile Glu Gly Arg Cys
1 5

<210> 10
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 10
ggatccctg gtcataatgct ttttgtggca ctctatgatt ttgtg 45

<210> 11
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 11
atgtttctcc aggctgttaa cgggggtgat gtagttgctt gg 42